



# Material Safety Data Sheet

**CHEMTREC Transportation  
Emergency Phone: 800-424-9300**

**Pittsburgh Poison Control  
Center  
Health Emergency No.: 412-681-6669**

•NOTE: The CHEMTREC Transportation  
•Emergency Phone is to be used only in the  
•event of chemical emergencies involving a  
•spill, leak, fire, exposure or accident  
•involving chemicals

## Section 1 - Chemical Product / Company Information

**Product Name:** CARBOGUARD 501 PART B      **Revision Date:** 03/04/2010  
**Identification Number:** PLMSDS S501B1NL      **Supercedes :** 02/23/2007  
**Product Use/Class:** Solvent-Free Epoxy - FOR INDUSTRIAL USE ONLY  
**Preparer:** Regulatory, Department  
**Manufacturer:** Carboline Company  
2150 Schuetz Road  
St. Louis, MO 63146  
(800) 848-4645

## Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA-CEIL
AMINE POLYMER	135108-88-2	25.0	N/E	N/E	N/E	N/E
TETRAETHYLENEMPENTAMINE	112-57-2	10.0	N/E	N/E	N/E	N/E
4-NONYL PHENOL, BRANCHED	84852-15-3	10.0	N/E	N/E	N/E	N/E
AMINOETHYLPIPERAZINE	140-31-8	10.0	N/E	N/E	N/E	N/E
NONYL PHENOL	25154-52-3	5.0	NE	NE	NE	NE
TRIS-2,4,6-(DIMETHYLAMINOMETHYL) PHENOL	90-72-2	5.0	NE	N/E	NE	NE
SILICA AMORPHOUS	67762-90-7	5.0	10 MG/M3, INHALABLE	N/E	6 MG/M3	N/E
CARBON BLACK	1333-86-4	0.2	3.5 MG/M3	N/E	3.5 MG/M3	N/E

## Section 3 - Hazards Identification

**Emergency Overview:** Corrosive Material. Harmful if swallowed. Can cause eye and skin burns. May cause skin sensitization.

**Effects Of Overexposure - Eye Contact:** Can cause eye burns.

**Effects Of Overexposure - Skin Contact:** May cause skin sensitization. May cause allergic skin reaction. Can cause skin burns.

**Effects Of Overexposure - Inhalation:** Harmful if inhaled, may affect the brain or nervous system, causing dizziness, headache, or nausea. May cause nose and throat irritation. May cause lung irritation. May cause allergic respiratory reaction, effects may be permanent. Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes).

**Effects Of Overexposure - Ingestion:** Harmful if swallowed.

**Effects Of Overexposure - Chronic Hazards:** Repeated and/or prolonged exposure may cause allergic reaction/sensitization. Repeated and/or prolonged exposures may result in adverse eye effects (such as conjunctivitis or corneal damage), adverse skin effects (such as rash, irritation, or defatting, or corrosion). Dryness of nasal passages may be experienced when material is inhaled over a long period of time.

**Primary Route(s) Of Entry:** Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

**Medical Conditions Prone to Aggravation by Exposure:** If sensitized to amines, epoxies, or other chemicals do not use. See a physician if a medical condition exists.

## Section 4 - First Aid Measures

**First Aid - Eye Contact:** If material gets into eyes, flush with water immediately for 15 minutes. Consult a physician.

**First Aid - Skin Contact:** In case of contact, immediately wash with plenty of soap and water for at least 15 minutes. Seek medical attention. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before re-use.

**First Aid - Inhalation:** If inhaled, remove to fresh air. Administer oxygen if necessary. Consult a physician if symptoms persist or exposure was severe.

**First Aid - Ingestion:** If swallowed do not induce vomiting. Seek immediate medical attention.

## Section 5 - Fire Fighting Measures

**Flash Point, F:** 267F (130C)  
(Setaflash)

**Lower Explosive Limit, %:** 1.5  
**Upper Explosive Limit, %:** 7.8

**Extinguishing Media:** Carbon Dioxide, Dry Chemical, Foam, Water Fog

**Unusual Fire And Explosion Hazards:** This product contains less than 1% volatile components. The amount of vapors that could accumulate are minimal. However, vapors are heavier than air and could travel long distances, ignite, and flashback. Eliminate all ignition sources. Keep away from sparks, open flames, and heat sources. All electrical equipment and installations should be made and grounded in accordance with the National Electrical Code. In areas where explosion hazards exist, workers should be required to use nonferrous tools and to wear conductive and non-sparking shoes.

**Special Firefighting Procedures:** Evacuate hazard area of unprotected personnel. Use a NIOSH approved self-contained breathing unit and complete body protection. Cool surrounding containers with water in case of fire exposure.

## Section 6 - Accidental Release Measures

**Steps To Be Taken If Material Is Released Or Spilled:** Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking. Evacuate the area of unprotected personnel. Wear appropriate personal protection clothing and equipment. Follow exposure controls/personal protection guidelines in Section 8. Contain and soak up residual with an absorbent (clay or sand). Take up absorbant material and seal tightly for proper disposal. Dispose of in accordance with local, state and federal regulations. Refer to Section 15 for SARA Title III and CERCLA information.

## Section 7 - Handling And Storage

**Handling:** Do not get in eyes, on skin, or on clothing. Keep container tightly closed when not in use. Wear personal protection equipment. Do not breathe vapors. Wash thoroughly after handling. If pouring or transferring materials, ground all containers and tools. Do not weld, heat, cut or drill on full or empty containers. Use only in accordance with Carboline application instructions, container label and Product Data Sheet. Avoid breathing vapors or spray mist.

**Storage:** Keep away from heat, sparks, open flames and oxidizing agents. Keep containers closed. Store in a cool, dry place with adequate ventilation.

## Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:** Use explosion-proof ventilation when required to keep below health exposure

guidelines and Lower Explosion Limit (LEL).

**Respiratory Protection:** Use only with ventilation to keep levels below exposure guidelines listed in Section 2. User should test and monitor exposure levels to ensure all personnel are below guidelines. If not sure, or not able to monitor, use MSHA/NIOSH approved organic vapor respirator. Follow all current OSHA requirements for respirator use.

**Skin Protection:** Recommend impervious gloves and clothing to avoid skin contact. If material penetrates to skin, change gloves and clothing. The use of protective creams may be beneficial to certain individuals. Protective creams should be applied before exposure.

**Eye Protection:** Recommend safety glasses with side shields or chemical goggles to avoid eye contact.

**Other protective equipment:** Eye wash and safety showers should be readily available.

**Hygienic Practices:** Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Use of a hand cleaner is recommended. Launder contaminated clothing before reuse. Leather shoes can absorb and allow hazardous materials to pass through. Check shoes carefully after soaking before reuse.

## Section 9 - Physical And Chemical Properties

<b>Boiling Range:</b>	256F (124C) - 431 F (222 C)	<b>Vapor Density:</b>	Heavier than Air
<b>Odor:</b>	Amine	<b>Odor Threshold:</b>	N/D
<b>Appearance:</b>	Brown, Viscous Liquid	<b>Evaporation Rate:</b>	Slower than Ether
<b>Solubility in H2O:</b>	N/D		
<b>Freeze Point:</b>	N/D	<b>Specific Gravity:</b>	0.51
<b>Vapor Pressure:</b>	N/D	<b>PH:</b>	N/D
<b>Physical State:</b>	Liquid		

(See section 16 for abbreviation legend)

## Section 10 - Stability And Reactivity

**Conditions To Avoid:** Heat, sparks and open flames.

**Incompatibility:** Avoid contact with strong oxidizing agents.

**Hazardous Decomposition Products:** Carbon monoxide, nitrogen oxides, and unidentified organic compounds. Consider all smoke and fumes from burning material as very hazardous. Welding, cutting or abrasive grinding can create smoke and fumes. Do not breathe any fumes or smoke from these operations.

**Hazardous Polymerization:** Will not occur under normal conditions.

**Stability:** This product is stable under normal storage conditions.

## Section 11 - Toxicological Information

**Product LD50:** N/D

**Product LC50:** N/D

Chemical Name	CAS Number	LD50	LC50
AMINE POLYMER	135108-88-2	367 MG/KG, ORAL, RAT	NOT AVAILABLE
TETRAETHYLENEPENTAMINE	112-57-2	NOT AVAILABLE	NOT AVAILABLE
4-NONYL PHENOL, BRANCHED	84852-15-3	1620 MG/KG ORAL 2140 MG/KG SKIN	NOT AVAILABLE
AMINOETHYLPIPERAZINE	140-31-8	2140 MG/KG, ORAL, RAT	NOT AVAILABLE
NONYL PHENOL	25154-52-3	1620MG/KG ORAL 2140 MG/KG SKIN	NOT AVAILABLE
TRIS-2,4,6- (DIMETHYLAMINOMETHYL) PHENOL	90-72-2	2169 MG/KG ORAL	NOT AVAILABLE
SILICA AMORPHOUS	67762-90-7	> 5000 MG/KG, ORAL , RAT	NOT AVAILABLE
CARBON BLACK	1333-86-4	NOT AVAILABLE	>8000 MG/KG, ORAL, RAT

## Section 12 - Ecological Information

**Ecological Information:** No data

### Section 13 - Disposal Information

**Disposal Information:** Dispose of in accordance with State, Local, and Federal Environmental regulations. Responsibility for proper waste disposal is with the owner of the waste.

### Section 14 - Transportation Information

<b>DOT Proper Shipping Name:</b>	Corrosive Liquid, Basic, Organic, N.O.S.	<b>Packing Group:</b>	III
<b>DOT Technical Name:</b>	Nonyl Phenol, Tetraethylenepentamine	<b>Hazard Subclass:</b>	N/A
<b>DOT Hazard Class:</b>	8	<b>Resp. Guide Page:</b>	153
<b>DOT UN/NA Number:</b>	3267		

**Additional Notes:** None.

### Section 15 - Regulatory Information

#### CERCLA - SARA HAZARD CATEGORY

This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD

#### SARA SECTION 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

No Section 313 Substances exist in this product

#### TOXIC SUBSTANCES CONTROL ACT

All components of this product are listed on the TSCA inventory.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

<b>Chemical Name</b>	<b>CAS Number</b>
N-PENTANE(ENCAPSULATED)	109-66-0

#### U.S. STATE REGULATIONS AS FOLLOWS:

##### NEW JERSEY RIGHT-TO-KNOW

The following materials are non-hazardous, but are among the top five components in this product.

<b>Chemical Name</b>	<b>CAS Number</b>
TRADE SECRET POLYMER	TRADE SECRET CTS-904

##### PENNSYLVANIA RIGHT-TO-KNOW

The following non-hazardous ingredients are present in the product at greater than 3%.

<b>Chemical Name</b>	<b>CAS Number</b>
TRADE SECRET	TRADE SECRET

**CALIFORNIA PROPOSITION 65**

**Warning: The following ingredients present in the product are known to the state of California to cause Cancer:**

<b>Chemical Name</b>	<b>CAS Number</b>
CARBON BLACK	1333-86-4
MICROCRYSTALLINE SILICA	14808-60-7

**Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards:**

No California Proposition 65 Reproductive Toxins exist

**INTERNATIONAL REGULATIONS AS FOLLOWS:****CANADIAN WHMIS**

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

**CANADIAN WHMIS CLASS:** D2B E

**Section 16 - Other Information****HMIS Ratings****Health:** 3**Flammability:** 1**Reactivity:** 0**Personal Protection:** X

**VOLATILE ORGANIC COMPOUNDS, GR/LTR MIXED (UNTHINNED):** 0

**REASON FOR REVISION:** Changes made in Section(s): 2, 3, 9, and 11

**Legend:** N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

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